

BREVETTI

1. "Processo per la preparazione di Δ^5 -steroidi da steroli 5,7-dienici" *Italian Patent Application* N° 21524/83. Proprietà: Consigli Nazionale delle Ricerche. Inventori: Anastasia M., Allevi, P., Ciuffreda, P., Fiecchi, A.
2. Allevi P., Anastasia M., Bigatti E. and MacDonald, P. "Process for the preparation of demethylepipodophyllotoxin glycoside intermediates for anticancer agents and related compounds." *CT Int. Appl.* (1993). WO 9302094 A1 19930204 CAN 119:139689 AN 1993:539689.
3. Allevi P., Anastasia M. "Preparation of intermediates for the synthesis of pyridinoline." *PCT Int. Appl.* (2002),. CODEN: PIXXD2 WO 2002055499 A1 20020718 CAN 137:94006 AN 2002:539661.

TESTI

1. M. Anastasia e P. Allevi "Quesiti di Chimica" Polo Editoriale Chimico Milano
2. M. Anastasia "Chimica di Base per le Scienze della Vita" 2 Vol. Ed. Delfino Roma
3. M. Anastasia e G. Calderai "Materiali Dentari" Ed. Delfino Roma

- Asymmetry*, 18, 1750-1757 (2007) I.F. 2,634
130. Allevi P., Eti A. Femia, Giannini E., Anastasia M. "A Symple Strategy for the Synthesis of the Glycosylated Collagen Biomarkers α -D-Glucopyranosyl-(1₂)- β -D-Galactopyranosyl-O-Pyridinoline (Glc-Gal-PYD), α -D-Glucopyranosyl-(1₂)- β -D-Galactopyranosyl-5-O-Hydroxylysine (Glc-Gal-Hyl) and of their Unnatural Epimers Glc-Gal-EpiHyl". *Tetrahedron Asymmetry*, 18, 2689-2694 (2007) I.F. 2,634
 131. Colombo R., Anastasia M., Rota P., Allevi P. "The First Synthesis of N-Acetylneuraminic acid 1,7-Lactone". *Chem. Commun.*, 5517-5519 (2008) I.F. 5,34
 132. Allevi P., Eti A. Femia, Costa M.L., Cazzola R., Anastasia M. "Quantification of N-Acetyl- and N-Glycolylneuraminic Acids by a Stable Isotope Dilution Assay Using High-Performance Liquid Chromatography-Tandem Mass Spectrometry". *J Chromatography A.*, 1212, 98-105 (2008) I.F. 3,756
 133. Allevi P., Eti A. Femia, Rota P., Costa M.L., Anastasia M. "Synthesis of Unnatural Homologues of Deoxypyridinoline as possibile Internal Standards in Analytical Detection of Pyridinolinic Cross-Links of Collagen". *Tetrahedron Asymmetry*, 19, 2470-2478 (2008) I.F. 2,796
 134. Rota P., Allevi P., Colombo R., Costa M.L., Anastasia M. "General and Chemoselective N-Transacylation of Secondary Amides by Means of Perfluorinated Anhydrides". *Angew. Chem. Int.*, 49, 1850-1853 (2010)
 135. Rota P., Allevi P., Mattina R., Anastasia M. "Reaction of N-acetylneuraminic Acid Derivatives With Perfluorinated Anhydrides: a Short Access to N-Perfluoroacylated Glycals With Antiviral Properties". *Organic Biomol. Chem.*, 8, 3771-3776 (2010)
 136. Allevi P., Rota P., Scaringi R., Colombo R., Anastasia M.: "Chemoselective Synthesis of Sialic Acid 1,7-Lactones". *J. Org. Chem.*, 75, 5542-5548 (2010).
 137. Rota P., Allevi P., Costa M.L., Anastasia M.: "High Yielding N-Transacylation of Secondary Amides in Acids Labile Molecules by the Action of Perfluorinated Anhydrides in the Presence of a Mild Base". *Tetrahedron Asymmetry*, 21, 2681-2686 (2010).
 138. Allevi P., Anastasia M., Costa M.L., Rota P.: "Two Procedures for the Syntheses of Labeled Sialic Acids and Their 1,7- Lactones". *Tetrahedron Asymmetry*, 22, 338-344 (2011).
 139. Rota P., Allevi P., Agnolin I.S., Mattina R., Papini N., Anastasia M.: "A Symple Synthesis of N-Perfluoroacylated and N- Acylated Glicals of Neuraminic Acid With a Cyclic Aminic Substituent at the 4 Alpha Position as Possible Inhibitors of Sialidases". *Organic and Biomolecular Chemistry*, 10, 2885-2894 (2012).
 140. Rota P., Agnolin I.S., Allevi P., Anastasia M.: "Facile Diastereoselective Entry to 4 beta-Acylation of Neu5Ac2en Glycals Using Their N-Perfluoroacylated Congeners as key Tools". *European Journal of Organic Chemistry*, 13, 2508-2510 (2012).
 141. Agnolin I.S., Rota P., Allevi P., Gregorio A., Anastasia M.: "Simple and Rapid Procedures for the Synthesis of 5-Acylation 4 β -Acylamido – and 4 β – Acetoxynneuraminic Acid Glycals". *European Journal of Organic Chemistry*, 6537-6547 (2012).
 142. Anastasia L., Rota P., Anastasia M., Allevi P.: "Chemical structure, biosynthesis and synthesis of free and glycosylated pyridinolines, formed by cross - link of bone and synovium collagen". *Organic and Biomolecular Chemistry*, 11, 5747-5771 (2013).
 143. Allevi P., Rota P., Agnolin I.S., Gregorio A., Anastasia M.: "A Simple Synthetic Access to Differently 4- Substituted Neu5Ac2en Glycals Combining Elements of Molecules With Anti Neuraminidase Activity". *European Journal of Organic Chemistry*, 19, 4065-4077 (2013).

Piridinolina”.

114. Anastasia L., Anastasia M. and Allevi P. “A Practical Protocol for the Synthesis of 3-Hydroxy-4,5-Disubstituted Pyridine Derivatives from Acyclic Compounds” *J. Chem. Soc. Perkin. T. 1*, 2404-2408 (2001). **I.F.(2004) 2,420**
115. Allevi P., Cighetti G. and Anastasia M. “Cleavage of Benzyloxycarbonyl-5-Oxazolidinones to α -Benzyloxycarbonylamino- α -Alkyl Esters by Alcohol and Sodium Hydrogen Carbonate” *Tetrahedron Lett.*, 42, 5319-5321 (2001). **I.F. 2,509**
116. Allevi P., Galligani M. and Anastasia M. “A Simple and Convenient Transformation of L-Lysine into Pyridinoline and Deoxypyridinoline, Two Collagen Cross-Links of Biochemical Interest” *Tetrahedron-Asymmetr.*, 13, 1901-1910 (2002). **I.F. 2,468**
117. Allevi P., and Anastasia M. “A Simple Modular Synthesis of Pyridinoline, a Collagen Cross-Link of Biochemical Interest” *Tetrahedron-Asymmetr.*, 14, 2005-2112 (2003). **I.F. 2,468**
118. Allevi P., and Anastasia M. “Mild Regeneration of the Carboxylic Group of Amino Acid Alkyl Esters by Aqueous Methanolic Sodium Hydrogen Carbonate via 5-Oxazolidinones” *Tetrahedron Lett.*, 44, 7663-7665 (2003). **I.F. 2,509**
119. Allevi P., Cribiù R. and Anastasia M. “A Convenient Two Step Transformation of Tyrosine into the Antihypertensive Amino Acid (S)-4-hydroxy-3-Hydroxymethyl-phenylalanine” *Tetrahedron-Asymmetr.*, 15, 1355-1358 (2004). **I.F. 2,468**
120. Allevi P., Anastasia M., Paroni R. and Ragusa A. “The First Synthesis of Glucosylgalactosyl Hydroxylysine (Glu-Gal-Hyl) an Important Biological Indicator of Collagen Turnover” *Bioorg. Med. Chem. Lett.*, 14, 3319-3321 (2004). **I.F. 2,538**
121. Allevi P., Cribiù R. & Anastasia M. “Facile and Rapid Regeneration of Free Amino Acids from *N*-Benzyloxycarbonyl-5-Oxazolidinones and from *N*-Benzylcarbonylamino Derivatives by Treatment with BCl_3 in Dichloromethane” *Tetrahedron Lett.*, 45, 5841-5843 (2004). **I.F. 2,509**
122. Allevi P. & Anastasia M. “A Practical and Simple Synthesis of (2*S*,5*R*)- and (2*S*,5*S*)-5-Hydroxylysine and of a Related α -Amino Acid Required for the Synthesis of the Collagen Cross-Link Pyridinoline” *Tetrahedron-Asymmetr.*, 15, 2091-2096 (2004). **I.F. 2,468**
123. Allevi P., Paroni R., Ragusa A. & Anastasia M. “Hydroxylysine Containing Glycoconjugates: an Efficient Synthesis of Natural Galactosylhydroxylysine (Gal-Hyl) and Glucosylgalactosylhydroxylysine (Glu-Gal-Hyl) and of their (5*S*)-Epimers” *Tetrahedron-Asymmetr.*, 15, 3139-3148 (2004). **I.F. 2,468**
124. Allevi P., Olivero P. & Anastasia M. “Controlled Synthesis of labelled 3-L-Chlorotyrosine-[Ring- $^{13}\text{C}_6$] and of 3,5-L-Dichlorotyrosine-[Ring- $^{13}\text{C}_6$]” *J. Labelled Compd. Rad.*, 47, 935-945 (2004). **I.F. 0,746**
125. Allevi P., Cribiù R., Giannini E., Anastasia M. “The First Total Synthesis of α -D-Glucopyranosyl - (1-2) – β -D-Galactopyranosyl – O – Pyridinoline, an important hallmark of human joint diseases” *Bioconjugate Chem.*, 16, 1045-1048 (2005)
126. Cribiù R., Allevi P., Anastasia M. “Reduced Collagen Cross Links: the First Synthesis of All the Possible (2*S*,2'*S*)-Stereoisomers of 5-Hydroxylysionorleucine and 5,5'-Dihydroxylysionorleucine in Enantiomerically Pure Form” *Tetrahedron-Asymmetr.*, 16, 3059-3069 (2005). **I.F. 2,468**
127. Allevi P., Cribiù R., Giannini E., Anastasia M. “Practical Syntheses of Pyridinolines Important Amino Acidic Biomarkers of Collagen Health” *J. Org. Chem.*, 72, 3478-3483 (2007). **I.F. 3,790**
128. Anastasia M., Allevi P., Colombo R., Giannini E. “Elucidation of the Opening of the Epoxidic Ring of the 3 β -Acetoxy-14 α ,15 α -Epoxy-5 α -Cholest-8-En-7-Ome by Methanol, using NMR Techniques Assisted by a Conformational Study through Theoretical Calculations” *Steroids*, 72, 809-818 (2007). **I.F. 2,849**
129. Allevi P., Colombo R., Giannini E., Anastasia M. “Total Synthesis of the Collagen Glycosylated Cross-Link β -D- Galactopyranosyl-O-Epipyridinoline”. *Tetrahedron*

95. Allevi P., Anastasia M., Cajone F., Ciuffreda P. and Sanvito A.M. "Structural Requirements of Aldehydes Produced In LPO for the Activation of the Heat-Shock Genes In HeLa Cells" *Free Radical Biol. Med.*, 18, 107-116 (1995). **I.F. 5,440**
96. Allevi P., Cajone F., Ciuffreda P. and Anastasia M. "The First Synthesis of *Threo*- and *Erythro*-(*E*)-4,5-Dihydroxydec-2-enals Carbonyls Related to the Peroxidation of Liver Microsomal Lipids" *Tetrahedron Lett.*, 36, 1347-1350 (1995). **I.F. 2,509**
97. Allevi P., Ciuffreda P., Tarocco G., Anastasia M. "The First Synthesis of All Possible Stereoisomers of the (*E*)-4,5-Dihydroxydec-2-enal, in Homochiral Form" *Tetrahedron-Asymmetr.*, 6, 2357-2364 (1995). **I.F. 2,468**
98. Anastasia M., Cighetti G., Debiasi S., Cajone F., Arbini F. e Cattaneo A. "Valutazione della Biocompatibilità Generale di Leghe Dentarie Auree per Saldatura" *Quint. Odont.*, 3, 1-18 (1995).
99. Allevi P., Ciuffreda P., Tarocco G. and Anastasia M. "Enzymatic Resolution of (*R*)- and (*S*)-2-(1-Hydroxyalkyl)Thiazoles, Synthetic Equivalents of (*R*)- and (*S*)-2-Hydroxy Aldehydes" *J. Org. Chem.*, 61, 4144-4147 (1996). **I.F. 3,790**
100. Allevi P., Ciuffreda P. and Anastasia M. "Lipase Catalysed Resolution of (*R*)- and (*S*)-1-Trimethylsilyl-1-Alkyn-3-ols: Useful Intermediates for the Synthesis of Optically Active γ -Lactones" *Tetrahedron-Asymmetr.*, 8, 93-99 (1997). **I.F. 2,468**
101. Allevi P., Tarocco G., Longo A., Anastasia M. and Cajone F. "Synthesis of All Four Isomers of (*E*)-4,5-Dihydroxydec-2-enal Using Osmium-Catalysed Asymmetric Dihydroxylation" *Tetrahedron-Asymmetr.*, 8, 1315-1325 (1997). **I.F. 2,468**
102. Allevi P., Ciuffreda P. and Anastasia M. "Revised Structures for the Lactones Obtained by Reduction of the Adduct of Ergosterol Acetate with Maleic Anhydride" *J. Org. Chem.*, 62, 8218-8220 (1997). **I.F. 3,790**
103. Allevi P., Anastasia M., Bincham S., Ciuffreda P., Fiecchi A., Cighetti G., Muir M., Scala A. and Tyman J. "Synthesis of Carminic Acid, the Colourant Principle of Cochineal" *J. Chem. Soc. Perk. T. 1*, 575-582 (1998). **I.F.(2004) 2,420**
104. Allevi P., Ciuffreda P., Longo A. and Anastasia M. "Lipase-Catalysed Chemoselective Monoacetylation of Hydroxyalkylphenols and Chemoselective Removal of A Single Acetyl Group From Their Diacetates" *Tetrahedron-Asymmetr.*, 9, 2915-2924 (1998). **I.F. 2,468**
105. Allevi P., Longo A. and Anastasia M. "Synthesis of two Congeners of Brassinolide, Possible Plant Growth Promoting Steroids" *Tetrahedron*, 55, 4167-4176 (1999). **I.F. 2,817**
106. Allevi P., Longo A. and Anastasia M. "Total Synthesis of Deoxyipyridinoline, a Biochemical Marker of Collagen Turnover" *Chem. Commun.*, 559-560 (1999). **I.F. 4,521**
107. Allevi P., Anastasia M. and Cajone F. "Synthesis of (*E*)-9-(1-Pyrenyl)-4-Hydroxynon-2-Enal, a Fluorescent Probe of the (*E*)-4-Hydroxynon-2-Enal with Retained Biological Properties" *Chem. Phys. Lipids* 100, 89-99 (1999). **I.F. 2,371**
108. Allevi P., Longo A. and Anastasia M. "A New Modular Synthesis of Deoxyipyridinoline a Primary Reference Material for Monitoring the Bone Metabolism" *J. Chem. Soc. Perk. T. 1*, 2867-2868 (1999). **I.F.(2004) 2,420**
109. Allevi P., Longo A. and Anastasia M. "A Convenient and Inexpensive Synthesis of Labelled Methylmalonic and Propionic Acids: Application to the synthesis of Methyl-d₃-Malonic and Propionic 3,3,3-d₃-Acids" *J. Labelled Compd. Rad.* 42, 1085-1091 (1999). **I.F. 0,746**
110. Allevi P., Longo A. and Anastasia M. "Synthesis 5 α ,8 α -Ethanoergosta-2,6,22-triene-2'- β -Hydroxymethylene-1' β -Carboxylic Acid Lactone, a Key Intermediate for the Synthesis of a Brassinolide Analogue" *Chem. Phys. Lipids* 103, 117-123 (1999). **I.F. 2,371**
111. Allevi P., Longo A. and Anastasia M. "A New Convenient Transformation of Erythromycin A into Clarithromycin" *Bioorgan. Med. Chem.*, (1999). **I.F. 2,624**
112. Allevi P., E Anastasia M. "Synthesis of All Four Possible Stereoisomers of 5-Hydroxylysine" *Tetrahedron-Asymmetr.*, 11, 3151-3160 (2000). **I.F. 2,468**
113. Allevi P., Anastasia M. Descrizione del brevetto "Procedimento e intermedi per la sintesi di

78. Allevi P., Anastasia M., Fiecchi A., Sanvito A. M. and Scala A. "Simple Synthesis of Mono- and Bismethyl Ethers of Purpurin (1,2,4-Trihydroxyanthraquinone)" *Synthesis-Stuttgart*, 438-440 (1991). **I.F. 2,333**
79. Anastasia M., Allevi P., Ciuffreda P., Fiecchi A. and Scala A. "Action of Alkali on O-Benzylated Aldoses: A Simple Rationalization of Some Reactions Occurring in Alkaline Media" *J. Org. Chem.*, 56, 3054-3058 (1991). **I.F. 3,790**
80. Allevi P., Anastasia M., Ciuffreda P., Fiecchi A., Scala A., Bingham S. J., Muir M. and Tyman J. H. P. "The First Total Synthesis of Carminic Acid" *Chem. Commun.*, 1319-1320 (1991). **I.F. 4,521**
81. Allevi P., Anastasia M. and Ciuffreda P. "A Short and Simple Synthesis of the Thioglucose Analog of the Antitumor Agent Etoposide" *Tetrahedron Lett.*, 32, 6927-6930 (1991). **I.F. 2,509**
82. Allevi P., Anastasia M., Ciuffreda P., Sanvito A. M. and MacDonald P. "A Short and Simple Synthesis of the Antitumor Agent Etoposide" *Tetrahedron Lett.*, 33, 4831-4834 (1992). **I.F. 2,509**
83. Allevi P., Anastasia M., Ciuffreda P., Sanvito A. M., E Scala A. "A Simple One Pot Synthesis of Aromatic Steroidal and non-Steroidal C-Glucosides via O-Glucosides" *Chem. Phys. Lipids*, 63, 179-189 (1992). **I.F. 2,371**
84. Allevi P., Anastasia M., Ciuffreda P. and Scala A. "A Simple Synthesis of C-Glucosides Related to the Antitumor Agent Etoposide" *J. Carbohyd. Chem.*, 12, 209-222 (1993). **I.F. 0,760**
85. Allevi P., Anastasia M., Ciuffreda P. and Sanvito A. M. "Preparation of (R)- and (S)-(E)-4-Hydroxy-2-Unsaturated Acids by Asymmetric Hydrolysis of Their Racemic Esters" *Tetrahedron-Asymmetr.*, 4, 1397-1400 (1993). **I.F. 2,468**
86. Allevi P., Anastasia M., Ciuffreda P., Bigatti E. and MacDonald P. "Stereoselective Glucosidation of Podophyllum Lignans. A New Simple Synthesis of Etoposide" *J. Org. Chem.*, 58, 4175-4178 (1993). **I.F. 3,790**
87. Allevi P., Anastasia M., Cajone F., Ciuffreda P. and Sanvito A.M. "Enzymatic Resolution of (R)- and (S)-(E)-4-Hydroxyalk-2-Enals Related to Lipid Peroxidation" *J. Org. Chem.*, 58, 5000-5002 (1993). **I.F. 3,790**
88. Allevi P., Anastasia M. and Ciuffreda P. "The First Synthesis of the N-Glucosyl Analogue of the Antitumor Agent Etoposide" *Tetrahedron Lett.*, 34, 7313-7316 (1993). **I.F. 2,509**
89. Anastasia M., Arbini F., Cajone F., Cighetti G., Debiassi A., Fiecchi G. e Scaltrito M. "Studio in vitro della Tossicità Generale di Leghe Dentali Auree" *Quint. Odont.*, 10, 1035-1048 (1993).
90. Allevi P., Anastasia M., Cajone F., Ciuffreda P. and Sanvito A.M. "Enzymatic Resolution of the Ethyl Acetals of (R)- and (S)-4-Hydroxyalk-2-ynals" *Tetrahedron-Asymmetr.*, 5, 13-16 (1994). **I.F. 2,468**
91. Allevi P., Anastasia M., Ciuffreda P. and Sanvito A.M. "A Practical Synthesis of (R)- and (S)-(E)-4-Hydroxyalk-2-Enals, Cytotoxic Products of the Microsomal Lipid Peroxidation" *Tetrahedron-Asymmetr.*, 5, 927-934 (1994). **I.F. 2,468**
92. Anastasia M., Arbini F., Cajone F., Cighetti G., Debiassi S., Fiecchi G. e Scaltrito M.M. "Proposta di un Test per la Valutazione della Tossicità Generale di Leghe Dentarie Auree" *Quintessence Int.*, 3, 191-200 (1994). **I.F. 0,606**
93. Anastasia M., Cighetti G., Debiassi A., Fiecchi G., Arbini F., Cajone F. and Scaltrito M. "In vitro Untersuchung von Edelmetall Dental Legierungen Hinsichtlich der Allgemeinen Toxizität" *Quint. Zahntech.*, 20, 1059-1073 (1994).
94. Allevi P., Anastasia M. and Ciuffreda P. "A New Simple Synthesis of 1,3-Dideuterated Malondialdehyde (3-Hydroxy[1,3-²H₂]-2-Propenal)" *J. Labelled Compd. Rad.*, XXXIV, 557-563 (1994). **I.F. 0,746**

60. Anastasia M., Allevi P., Ciuffreda P., Fiecchi A. and Scala A. "Beckmann Rearrangement of Δ^4 -6-Hydroxymino Steroids" *J. Chem. Soc. Perk. T. 1*, 2123-2126 (1986). **I.F.(2004) 2,420**
61. Anastasia M., Allevi P., Ciuffreda P., Fiecchi A. and Scala A. "Synthesis of (2R,3S,22S,23S)-2,3,22,23-Tetrahydroxy-B-Homo-7-aza-5 α -Stigmastan-6-One, an Aza-analogue of Homobrassinolide" *J. Chem. Soc. Perk. T. 1*, 2117-2121 (1986). **I.F.(2004) 2,420**
62. Anastasia M., Allevi P., Fiecchi A., Oleotti A. and Scala A. "Stereochemical Course of the Hydroboration of Highly Hindered Steroidal Olefins. A Ready Synthesis of 14 β - and 8,14 β -Steroids" *Steroids*, 47, 131-141 (1986). **I.F. 2,849**
63. Allevi P., Anastasia M., Ciuffreda P., Fiecchi A. and Scala A. "C-Glucopyranosyl Derivatives From Readily Available 2,3,4,6-Tetra-O-Benzyl- α -D-Glucopyranosyl Chloride" *Chem. Commun.*, 101-102 (1987). **I.F. 4,521**
64. Allevi P., Anastasia M., Ciuffreda P., Fiecchi A. and Scala A. "The First Direct Method for C-Glucopyranosyl Derivatization of 2,3,4,6-Tetra-O-Benzyl-D-Glucopyranose" *Chem. Commun.*, 1245-1246 (1987). **I.F. 4,521**
65. Allevi P., Anastasia M., Ciuffreda P., Fiecchi A. and Scala A. "A Simple Transformation of Carminic Acid Into Kermesic Acid" *J. Org. Chem.*, 52, 5469-5472 (1987). **I.F. 3,790**
66. Anastasia M., Colombo D. and Fiecchi A. "Quantitative High-Performance Liquid Chromatographic Determination of the Aminoacid Spinacine in Blood e Chow of Rats" *J. Chromatogr. A*, 410, 504-508 (1987). **I.F. 3,554**
67. Anastasia M., Allevi P., Ciuffreda P., Fiecchi A. and Scala A. "Synthesis of 14 β -Cholesta-5,7-dien-3 β -ol" *Steroids*, 49, 543-552 (1987). **I.F. 2,849**
68. Allevi P., Anastasia M., Ciuffreda P., Fiecchi A. and Scala A. "An Efficacious C-Glucosidation of B-Ketoesters and Ketones Via Enamines" *Chem. Commun.*, 57-58 (1988). **I.F. 4,521**
69. Allevi P., Anastasia M., Cerana R., Ciuffreda P. and Lado P. "24-Epibrassinolide Uptake In Growing Maize Root Segments Evaluated By Multiple-Selected Ion Monitoring" *Phytochemistry*, 27, 1309-1313 (1988). **I.F. 2,417**
70. Anastasia M. "I Compositi: Chimica, Struttura e Proprietà, Stato Attuale dello Sviluppo dei Componenti" Estratto da "Odontoiatria Oggi", Vol. V, Ed. Piccin, Padova, pp.191-212 (1988).
71. Allevi P., Anastasia M., Ciuffreda P., Fiecchi A. and Scala A. "Epimerization of α - to β -C-Glucopyranosides under Mild Basic Conditions" *J. Chem. Soc. Perk. T. 1*, 1275-1280 (1989). **I.F.(2004) 2,420**
72. Allevi P., Anastasia M., Colombo D. and Fiecchi A. "Hydroboration of 5 α -Ergost-8-en-3 β -ol" *Steroids*, 54, 133-143 (1989). **I.F. 2,849**
73. Tragni E., Marinovich M., Ciuffreda P., Anastasia M., Ferrari A. and Galli C.L. "Identification of [14 C]carmoisine Metabolites in Bacterial Suspension of Rat Faeces" *Food Addit. Contam.*, 7, 1-7 (1990). **I.F. 1,780**
74. Allevi P., Anastasia M., Ciuffreda P., Fiecchi A. and Sanvito A.M. "Synthesis of 7 α ,12 α -Dihydroxy-3 α -[2-(β -D-Glucopyranosyl)Acetyl]-5 β -cholan-24-oic Acid" *Steroids*, 55, 303-307 (1990). **I.F. 2,849**
75. Allevi P., Anastasia M., Ciuffreda P., Fiecchi A. and Scala A. "The First Example of Steroidic C-Glucopyranosides" *Chem. Phys. Lipids*, 53, 219-230 (1990). **I.F. 2,371**
76. Anastasia M., Allevi P., Ciuffreda P., Fiecchi A. and Scala A. "A Simple and Ready Internal C-Glycosidation of 2,3,5-Tri-O-Benzylglycofuranoses Promoted By the Boron Trifluoride-Diethyl Ether Complex" *Carbohyd. Res.*, 208, 264-266 (1990). **I.F. 1,703**
77. Anastasia M., Allevi P., Bettini C., Fiecchi A. and Sanvito A.M. "Obtention of Anthraquinones by Selective Oxidation of the Corrisponding Anthracenes and 9,10-Dimethoxyanthracenes with Copper or Zinc Nitrate Supported on Silica Gel" *Synthesis-Stuttgart*, 1083-1084 (1990). **I.F. 2,333**

41. Anastasia M., Allevi P., Fiecchi A. and Scala A. "15-Oxygenated Sterols by *m*-Chloroperbenzoic Acid Oxidation of 3 β -Acetoxy-5 α cholesta-8,14-diene" *J. Org. Chem.*, 46, 3265-3267 (1981). **I.F. 3,790**
42. Anastasia M., Fiecchi A. and Galli G. "Synthesis of Cholesta-5,8-dien-3 β -ol" *J. Org. Chem.*, 46, 3421-3422 (1981). **I.F. 3,790**
43. Anastasia M., Allevi P., Fiecchi A. and Scala A. "A New Route To Steroid Ring C Aromatization From Readily Available Precursors" *Lipids*, 17, 226-229 (1982). **I.F. 1,935**
44. Anastasia M., Ciuffreda P. and Fiecchi A. "A Simple Method for the Reduction of the 7,8-Double Bond of Steroidal 5,7-dienes" *Chem. Commun.*, 1169-1170 (1982). **I.F. 4,521**
45. Anastasia M., Ciuffreda P., Fiecchi A. and Galli G. "Biomimetic Reactions for the Synthesis of Sterols of Biological Interest" *J. Biochem.*, 360-361 (1982). **I.F. 1,963**
46. Anastasia M., Allevi P., Del Puppo M. and Fiecchi A. "A New Route to Ring C Benzenoid Steroids" *Ital. J. Biochem.*, 31, 358-360 (1982). **I.F.(2000) 0,083**
47. Anastasia M., Ciuffreda P., Del Puppo M. and Fiecchi A. "Synthesis of Castasterone and its 22S,23S-Isomer: Two Plant Growth Promoting Ketones" *J. Chem. Soc. Perk. T. 1*, 383-386 (1983). **I.F.(2004) 2,420**
48. Anastasia M., Ciuffreda P. and Fiecchi A. "A New Synthesis of Brassinosteroids: Plant Growth Promoting Steroids" *J. Chem. Soc. Perk. T. 1*, 379-382 (1983). **I.F.(2004) 2,420**
49. Anastasia M., Ciuffreda P., Del Puppo M. and Fiecchi A. "A New Route to Steroid Ring-C Aromatization from 7-Oxygenated Steroids" *J. Chem. Soc. Perk. T. 1*, 587-590 (1983). **I.F.(2004) 2,420**
50. Anastasia M., Allevi P., Ciuffreda P. and Fiecchi A. "A Convenient Protection of the 3 β -Hydroxy or 3 β -Chloro Substituent of 6-Oxo-Steroids" *Synthesis-Stuttgart*, 123-124 (1983). **I.F. 2,333**
51. Anastasia M., Allevi P., Fiecchi A., Galli G., Gariboldi P. and Scala A. "Synthesis of 11- and 15-Oxygenated Steroids. the Course of 8,14-dienes Oxidation By Chromic Acid" *J. Org. Chem.*, 48, 686-689 (1983). **I.F. 3,790**
52. Anastasia M., Allevi P., Ciuffreda P. and Fiecchi A. "Stereoselective Synthesis of Crinosterol [(22*E*,24*S*)-Ergosta-5,22-dien-3 β -ol]" *J. Chem. Soc. Perk. T. 1*, 2365-2367 (1983). **I.F.(2004) 2,420**
53. Anastasia M., Allevi P., Brasca M.G., Ciuffreda P. and Fiecchi A. "Synthesis of (2*R*,3*S*,22*S*,23*S*)-2,3,22,23-Tetrahydroxy-B-Homo-6-Aza-5 α -Stigmastan-7-One, an Aza-Analogue of Brassinolide" *Gazz. Chim. Ital.*, 114, 159-161 (1984). **I.F.(1999) 0,891**
54. Cerana R., Lado P., Anastasia M., Ciuffreda P. and Allevi P. "Regulating Effects of Brassino Steroids and of Sterols on Growth and H⁺ Secretion in Maize Roots" *Z. Pflanzenphysiol.*, 114, 221-225 (1984).
55. Anastasia M., Allevi P., Ciuffreda P., Fiecchi A. and Scala A. "Direct Trasformation of Ergosterol to (22*S*, 23*E*)-6 β -Methoxy-3-,5-cyclo-5-ergost-23-en-22-ol. A key Intermediate for the Synthesis of Brassinolide" *J. Org. Chem.*, 49, 4297-4300 (1984). **I.F. 3,790**
56. Anastasia M., Allevi P., Ciuffreda P., Fiecchi A. and Scala A. "Synthesis of (2*R*,3*S*,22*R*,23*R*) and (2*R*,3*S*,22*S*,23*S*)-2,3,22,23-Tetrahydroxy-B-Homo-7-Oxa-5-Ergostan-7-Ones, Two New Brassinolide s Analogues" *J. Org. Chem.*, 50, 321-325 (1985). **I.F. 3,790**
57. Anastasia M., Allevi P., Ciuffreda P., Fiecchi A., Gariboldi P. and Scala A. "Conversion of Nor-Ketones into Prochiral Terminal Methylene Groups: Synthesis of (24*E*) and (24*Z*)-[28-²H]Ergosta-5,24(28)-dien-3 β -ols" *J. Chem. Soc. Perk. T. 1*, 595-599 (1985). **I.F.(2004) 2,420**
58. Anastasia M., Allevi P., Ciuffreda P. and Oleotti A. "A Convenient Isomerization of 6-Oxo-3 α ,5-Cyclo-5 α -steroids to 6-Oxo- Δ^2 -5 α -Steroids" *Steroids*, 561-564 (1985). **I.F. 2,849**
59. Anastasia M., Allevi P., Ciuffreda P. and Riccio R. "Configuration Assignment of 24*R* and 24*S*-Isomers of 29-Oxygenated Steroids by ¹H and ¹³C NMR Spectroscopy" *Tetrahedron*, 42, 4843-4847 (1986). **I.F. 2,817**

- Key Intermediate in the Synthesis of Steroidal Moiety of Oogoniols" *11th International Symposium on Chem. of Nat. Product* 3, 138-141 (1978).
22. Galli Kienle M., Anastasia M., Cighetti G., Fiecchi A. and Galli G. "Formation of Oxygenated Sterols in the Removal of the 14 α -Methyl Group in Cholesterol Biosynthesis" *11th Int. Symp. on Chem. of Nat. Product* 1, 171-174 (1978).
 23. Anastasia M., Manzocchi Soave A. and Scala A. "Acid-Catalysed Backbone Rearrangement Involving the C-D Ring Junction in Normal Steroid Series" *J. Chem. Soc. Perk. T. 1*, 1131-1132 (1978). **I.F.(2004) 2,420**
 24. Anastasia M., Fiecchi A. and Scala A. "Side Chain Inversion of Steroidal Olefins Promoted by Hydrogen Chloride" *J. Org. Chem.*, 43, 3505-3508 (1978). **I.F. 3,790**
 25. Galli Kienle M., Cighetti G., Anastasia M. and Sirtori C.R. "Esterification, Lipoprotein Binding and Excretion of the 14 β -Steroisomer of Cholesterol" *J. Steroid Biochem.*, 9, 127-130 (1978). **I.F. 2,825**
 26. Anastasia M., Fiecchi A. and Scala A. "Epoxidation of 7-Double Bond of Cholesta-5,7-dien-3 β -ol by Permanganate" *Tetrahedron Lett.*, 35, 3323-3326 (1979). **I.F. 2,509**
 27. Anastasia M., Fiecchi A. and Scala A. "A Novel Synthesis of 3 β -Hydroxy-5 α -Cholest-8(14)-En-15-One" *J. Chem. Soc. Perk. T. 1*, 1821-1824 (1979). **I.F.(2004) 2,420**
 28. Anastasia M. and Derossi M. "Retro-1,4-Cycloaddition of Adducts Derived from Steroidal 5,7-dienes and 4-Phenyl-1,2,4-Triazoline-3,5-Dione" *Chem. Commun.*, 164 (1979). **I.F. 4,521**
 29. Anastasia M., Fiecchi A. and Scala A. "Synthesis of (24R)-and (24S)-3 β ,29-Dihydroxystigmast-7-ene, a Model for the Side Chain of Oogoniol" *Chem. Commun.*, 858-859 (1979). **I.F. 4,521**
 30. Anastasia M., Fiecchi A., Gariboldi P. and Scala A. "A New Approach to 3 β ,11,15-Trihydroxy-5-cholestan-7-one, a Key Intermediate in the Synthesis of the Steroidal Moiety of Oogoniols" *J. Org. Chem.*, 44, 4447-4449 (1979). **I.F. 3,790**
 31. Anastasia M., Galli C. G. and Allevi P. "Synthesis of 14 β ,17 β (H)-Cholest-5-en-3 β -ol" *J. Org. Chem.*, 44, 4983-4986 (1979). **I.F. 3,790**
 32. Anastasia M., Fiecchi A. and Scala A. "Permanganate Oxidation of Ergosterol" *J. Org. Chem.*, 44, 3657-3661 (1979). **I.F. 3,790**
 33. Anastasia M., Fiecchi A., Gariboldi P. and Galli G. "Stereochemical Course of the Catalytic Reduction and of the Acidic Isomerization of 14 β Steroids. Synthesis of Δ^8 -14 β and 8 α ,9 α ,14 β Steroids" *J. Org. Chem.*, 45, 2528 (1980). **I.F. 3,790**
 34. Galli Kienle M., Anastasia M., Cighetti G., Galli G. and Fiecchi A. "Studies on the 14 α -Demethylation Mechanism in Cholesterol Biosynthesis" *Eur. J. Biochem.*, 110, 93-105 (1980). **I.F. 3,579**
 35. Fuagalli R., Bernini F., Galli G., Anastasia M. and Fiecchi A. "The Identification of a Novel C27 diene, Cholesta-5,8-dien-3 β -ol, in Tissues of Rats Given AY-9944 (Trans-1,4-Bis(2-Dichlobenzylaminoethyl) Cyclohexane) in Pregnancy" *Steroids*, 35, 665-672 (1980). **I.F. 2,849**
 36. Fiecchi A., Anastasia M., Galli G. and Gariboldi P. "Assignment of the β Configuration to the C-Glycosyl Bond in Carminic Acid" *J. Org. Chem.*, 46, 1511 (1981). **I.F. 3,790**
 37. Anastasia M. and Allevi P. "Sterol Synthesis: Chemical Synthesis of 3 β -Hydroxy-5 α -cholest-7-ene-9 α -carbonitrile" *J. Lipid Res.*, 22, 370-372 (1981). **I.F. 4,357**
 38. Anastasia M. and Fiecchi A. "Stereospecific Synthesis of the Marine Sterol Stellasterol, (22E,24S)-5 α -Ergosta-7,22-dien-3 β -ol" *J. Org. Chem.*, 46, 1726-1728 (1981). **I.F. 3,790**
 39. Anastasia M. and Fiecchi A. "Synthesis of Lichesterol [Ergosta- 5,8(9)22-Trien-3 β -ol]" *J. Chem. Soc. Perk. T. 1*, 2125-2126 (1981). **I.F.(2004) 2,420**
 40. Anastasia M., Fiecchi A., Scala A. and Del Puppo M. "Synthesis of Chondrillasterol and Spinasterol [(22E,24R)- and (22E,24S)-5 α -Stigmasta-7,22-dien-3 β -ol]" *J. Chem. Soc. Perk. T. 1*, 2561-2562 (1981). **I.F.(2004) 2,420**

ELENCO COMPLETO DELLE PUBBLICAZIONI del Prof Mario Anastasia

1. Pollini G.P., Negri U., Mancini V. e Anastasia M. "Sulla Reattività del 6-Metossi-5-Metil-1-Tetralone e di alcuni suoi Derivati" *Farmaco*, 11, 822 (1966). Tesi di Laurea. **I.F.(2002) 0,790**
2. Pollini G.P., Barco A. e Anastasia M. "Sulla Preparazione del 2-Metil-Ciclopentan-1,3-Dione" *La Chimica e l'Industria*, 49, 285 (1967).
3. Pollini G.P., Barco A., Anastasia M. and Traverso G. "A Method for the Cleavage of Cyclic Ethylene Thiochetals by Mercuric Acetate" *Farmaco*, 4, 405 (1968). **I.F.(2002) 0,790**
4. Pollini G.P., Anastasia M., Traverso G. e Barco A. "Sulla Sintesi del 4-Metil-Ciclopenten-2-en-one-1" *Ann. Chim.*, 59, 250 (1969).
5. Barco A., Anastasia M. e Pollini G.P. "Sulla Riduzione con Nichel-Raney dell'Ossalil Ciclopentanone e dell'Ossalil Cicloesanone e di loro Derivati" *La Chimica e l'Industria*, 51, 165 (1969).
6. Barco A., Pollini G.P., Anastasia M., Taddei F. e De Giuli G. "Sulla Sintesi di Sistemi Biciclici della Classe del 3,2,0 Eptano" *Gazz. Chim. Ital.*, 99, 735 (1969). **I.F.(1999) 0,891**
7. Traverso G., Pollini G.P., Barco A., Anastasia M. e Bothner-By A.A. "Esperimenti di Sintesi dell'Isoclovene" *Gazz. Chim. Ital.*, 99, 863 (1969). **I.F.(1999) 0,891**
8. Traverso G., Barco A., Pollini G.P., Anastasia M., Sticchi V. e Pirillo D. "Un Nuovo Metodo di Sintesi di Butirrolattami Sostituiti" *Farmaco*, 11, 946 (1969). **I.F.(2002) 0,790**
9. Traverso G., Pollini G.P., De Giuli G., Barco A. e Invernizzi G. (Parte Sperimentale: Maggi D.L. e Anastasia M.) "Sulla Disidratazione di Aciloini Ciclopentanici Metil Sostituiti" *Gazz. Chim. Ital.*, 101, 225 (1971). **I.F.(1999) 0,891**
10. Anastasia M. e Ponti P. "Tutte le Voci di Chimica Organica (dalla Lettera A alla Lettera Z) del Dizionario Enciclopedico di Scienza e Tecnica" *Fratelli Fabbri Editori, Milano* (1971).
11. Scala A., Galli Kienle M., Anastasia M. and Galli G. "The Reversibility of the Isomerization of the 68 to 67 Bond in Cholesterol Biosynthesis" *Eur. J. Biochem.*, 48, 263-269 (1974). **I.F. 3,579**
12. Anastasia M., Bolognesi M., Fiecchi A., Rossi G. and Scala A. "A Ready Synthesis of 17 Steroids" *J. Org. Chem.*, 40, 2006-2007 (1975). **I.F. 3,790**
13. Anastasia M., Fiecchi A. and Scala A. "A Ready Synthesis of 5,14 β -Cholest-7-en-3 β -ol" *J. Chem. Soc. Perk. T. 1*, 378-380 (1976). **I.F.(2004) 2,420**
14. Anastasia M., Scala A. and Galli G. "Synthesis of 14 β -Cholest-5-en-3 β -ol" *J. Org. Chem.*, 41, 1064-1066 (1976). **I.F. 3,790**
15. Galli Kienle M., Cighetti G., Anastasia M. and Galli G. "14 β -Cholest-5-en-3 β -ol, a Model Molecule in Studies on the Stereochemical Aspects of Cholesterol Catabolism Reactions" *Ital. J. Biochem.*, 25, 183-184 (1976). **I.F.(2000) 0,083**
16. Galli Kienle M., Anastasia M., Cighetti G., Manzocchi A. and Galli G. "Inversion of the Unnatural cis C/D Sterol Ring Junction of 5,14 β -Cholest-7-en-3 β -ol by Rat Liver Enzymes" *Eur. J. Biochem.*, 73, 1-6 (1977). **I.F. 3,579**
17. Anastasia M., Cighetti G. and Manzocchi Soave A. "Reactions of Steroidal 8 α ,9 α - and 8 α ,14 α -Epoxy-7-Ketones with Acetic Acid" *J. Chem. Soc. Perk. T. 1*, 427-429 (1977). **I.F.(2004) 2,420**
18. Anastasia M., Fiecchi A., Cighetti G. and Galli G. "Synthesis of Cholestanes Containing an Oxygenated 14-Methyl Group" *J. Chem. Soc. Perk. T. 1*, 700-702 (1977). **I.F.(2004) 2,420**
19. Anastasia M. and Ronchetti F. "Mechanism of 14 β -Hydroxylation in the Biosynthesis of Cardenolides: Role of 14 β -Cholest-5-en-3 β -ol" *Phytochemistry*, 1082 (1977). **I.F. 2,417**
20. Anastasia M., Fiecchi A., Galli Kienle M., Scala A., Bolognesi M. and Rossi G. "Structure of Tetrahydrophibolin A: A Stable Enol of a Simple Aldehyde" *Proc. 11th International Symposium on the Chem. of Nat. Product 1*, 108-111 (1978).
21. Anastasia M., Fiecchi A. and Scala A. "A New Approach to Cholestan-3 β ,11,15,triol-7-one, a

	8) Agnolin, I.S., Rota P., Allevi P., Gregorio A., and Anastasia M. "Simple and rapid procedure for the synthesis of 5-Acylated 4 β -Acylamido and 4 β - acetoxynneuraminic acid Glycals" <i>European Journal of Organic Chemistry</i> 13, 6537-6547, 2012 .	3,34
	9) Anastasia, L., Rota P., Anastasia M., Allevi P. "Chemical Structure, Biosynthesis and Synthesis of Free and Glycosylated Pyridinolines, Formed by Cross-Lik of Bone and Sinovium Collagen" <i>Org. Biomol. Chem.</i> 11(35) 5747-5771, 2013 .	3.57
	10) Allevi P., Rota P., Agnolin, I.S.; Gregorio, A., Anastasia, M. "A simple synthetic access to differently 4-substituted Neu5Ac2en glycals combining elements of molecules with anti neuraminidase activity, <i>Eur. J. Org. Chem.</i> 14, 4065-4077, 2013 .	3.34
	TOTALE IF ultimi 5 anni	42,88
Testi didattici	Chimica di base per le scienze della vita: Editore Delfino Roma 2 volumi: Chimica generale con elementi di inorganica e Chimica organica con propedeutica biochimica, prima edizione 1999. Materiali Dentari Ed. Delfino Roma, prima edizione 2000	
Premi e riconoscimenti	Medaglia d'oro "Domenico Marotta" 2006, dalla Società Chimica Italiana, SCI. Medaglia d'Argento 2008 della Sezione Didattica della Società Chimica Italiana. Membro della Giuria delle Olimpiadi Internazionali della Chimica dal 1996.	
Incarichi Accademici	E' stato vicedirettore e quindi Direttore del Dipartimento di Chimica, Biochimica e Biotecnologie per la Medicina dal 1997 al 2002 e dal 2003 al 2008, rispettivamente. Ha fatto parte della commissione per la programmazione della Facoltà di Medicina e Chirurgia negli AA 2002-3 all'AA 2007-8, quale rappresentante eletto dei Direttori di Dipartimento.	
	Dall'AA 2007 all'AA 20013 è stato presidente del Consiglio del Corso di Laurea in Tecniche di Laboratorio Biomedico. Dall'AA 1986 al 2011 è stato presidente della commissione dell'esame di ammissione al corso di laurea di odontoiatria.	

Alcino Occhetto

Alcino Occhetto

Medora, 2 settembre 2015

No

	<p><u>osseo.</u></p> <p>Sono state ottenute le prime sintesi della desossipiridinolina, della piridinolina, della galattosil-piridinolina e della glucosil-galattosil-piridinolina importanti biomarker del turnover del collagene.</p> <p>5) <u>Studi su derivati dell'acido sialico a.</u></p> <p>Sono stati sintetizzati diversi analoghi ed omologhi dell'acido sialico (Neu5Ac) con potenziale attività antivirale, in quanto potenziali inibitori delle neuraminidasi virali</p>	
Numero totale di pubblicazioni	143	
Numero di pubblicazioni su riviste indicizzate (PubMed)	134	
Impact Factor totale (calcolato utilizzando il più recente disponibile)	354.402	
H-Index (database Scopus)	(facoltativo)	
Numero totale di citazioni	(facoltativo)	
Elenco delle pubblicazioni degli ultimi 5 anni*		IF 2010
	1) Rota P., Allevi P., Colombo R., Costa M.L., Anastasia M. "General and chemoselective N-transacylation of secondary amides by means of perfluorinated anhydrides" <i>Angew. Chem. Int. Ed.</i> 49, 1850-1853, 2010 .	12,730
	2) Rota P., Allevi P., Mattina R., Anastasia M. "Reaction of N-acetylneuraminic acid derivatives with perfluorinated anhydrides: a short access to N-perfluoroacylated glycals with antiviral properties" <i>Org. Biomol. Chem.</i> 8, 3771-3776, 2010 .	3.451
	3) Allevi P., Rota P., Scaringi R., Colombo R., Anastasia M. "Chemoselective synthesis of sialic acid 1,7-lactones" <i>J. Org. Chem.</i> 75, 5542-5548, 2010 .	4.002
	4) Rota P., Allevi P., Costa M.L., Anastasia M. "High yielding N-transacylation of secondary amides in acids labile molecules by the action of perfluorinated anhydrides in presence of a mild base" <i>Tetrahedron-Asymmetry</i> 21, 2681-86, 2010 .	2.484
	5) Allevi P., Anastasia M., Costa M.L., Rota P. "Two procedures for the syntheses of labeled sialic acid and their 1,7-lactones" <i>Tetrahedron-Asymmetry</i> 22, 338-344, 2011 .	2,484
	6) Rota P., Agnolin, I.S., Allevi P., and Anastasia M. "Facile Distereoselective Entry to 4 β -acetamidation of Neu5Ac2en Glycals using Their N-perfluoroacylated Congeners as Key Tools" <i>European Journal of Organic Chemistry</i> , 13, 2508-2510, 2012 .	3,34
	7) Rota P., Allevi P., Agnolin, I.S., Mattina, R., Papini N., and Anastasia M. "A simple synthesis of N-perfluoroacylated and N-acylated Glycals of neuraminic acid with a cyclic aminic substituent at the 4 α -position as possible inhibitors of sialidases" <i>Organic and Biomolecular Chemistry</i> , 10, 2885-2894, 2012 .	4.194

CURRICULUM VITAE

Informazioni personali	
Nome e Cognome	Mario Anastasia
Data di nascita	██████████
Qualifica	Professore Ordinario BIO-10 (Biochimica)
Attività didattica (aa 2012/2013) Corsi di Laurea Magistrale Corsi di Laurea Triennale Scuole di Specializzazione Corsi/Scuole di Dottorato	<i>Corsi di Laurea Magistrale:</i> Medicina e Chirurgia, Odontoiatria e protesi dentaria (Materiali dentari). <i>Corsi di Laurea Triennale</i> Dietistica Tecnici di Laboratorio Biomedico <i>Scuole di Specializzazione</i> Biochimica Clinica Docente e docente guida nella Scuola di dottorato in Biochimica
Partecipazione all'attività di organi di gestione dell'Ateneo/Facoltà	Commissione esame di ammissione Odontoiatria e Medicina e Chirurgia; Presidente del corso di laurea in tecniche di laboratorio biomedico
Collaborazioni nazionali/internazionali	Membro della Giuria Internazionale delle Olimpiadi della Chimica
Attività scientifica	
Principali linee di ricerca (max 250 parole)	<p><i>1) studi di composti steroidici aventi attività biologica.</i></p> <p>a) sintesi di steroidi a configurazione non naturale in quanto potenziali inibitori della biosintesi del colesterolo</p> <p>b) sintesi e studi sul meccanismo di azione di composti steroidici correlabili strutturalmente al brassinolide, ormone che stimola la crescita dei vegetali.</p> <p><i>2) studi nel campo dei derivati glucopiranosidici.</i></p> <p>a) messa a punto di nuovi metodi sintetici di applicabilità generale per l'ottenimento di C-glicosidi, in particolare C-glucopiranosidi, potenziali inibitori enzimatici.</p> <p>b) sintesi di C-glucosidi antrachinonici, questi studi hanno permesso di mettere a punto la prima sintesi totale dell'acido Carminico, un antico colorante naturale, attualmente utilizzato come colorante alimentare.</p> <p>c) sintesi di O-, N-, C- e S-glucosidi analoghi ed omologhi dell' etoposide, un inibitore della DNA topoisomerasi II, di uso clinico come antitumorale</p> <p><i>3) studi sui prodotti della perossidazione lipidica.</i></p> <p>Sintesi di diversi prodotti finali della perossidazione lipidica. Si è chiarito quali devono essere i requisiti strutturali delle aldeidi prodotte nella perossidazione lipidica per indurre l'attivazione dei Heat-Shock Genes e quindi la sintesi delle Heat-Shock Proteine in cellule HeLa.</p> <p><i>4) studi sulla sintesi della desossipiridinolina e della piridinolina, due marker biochimici del riassorbimento</i></p>